

APPENDIX C



Nucleotide

PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Books

Search for

Go

Clear

Limits

Preview/Index

History

Clipboard

Details

Display

GenBank

Save

Text

Add to Clipboard

☐ 1: NM_005765. Homo sapiens
ATPa...[gi:15011917]

Related Sequences, OMIM, Protein, PubMed, Taxonomy,
LinkOut

LOCUS NM_005765 2044 bp mRNA PRI 25-JUL-2001
 DEFINITION Homo sapiens ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9 (APT6M8-9), mRNA.
 ACCESSION NM_005765
 VERSION NM_005765.2 GI:15011917
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 2044)
 AUTHORS Ludwig, J., Kerscher, S., Brandt, U., Pfeiffer, K., Getlawi, F., Apps, D.K. and Schagger, H.
 TITLE Identification and characterization of a novel 9.2-kDa membrane sector-associated protein of vacuolar proton-ATPase from chromaffin granules
 JOURNAL J. Biol. Chem. 273 (18), 10939-10947 (1998)
 MEDLINE 98225166
 PUBMED 9556572
 COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The reference sequence was derived from AF248966.1.
 On Jul 25, 2001 this sequence version replaced gi:5031590.
 Summary: This gene encodes a protein which is associated with adenosine triphosphatases (ATPases). Proton-translocating ATPases have fundamental roles in energy conservation, secondary active transport, acidification of intracellular compartments, and cellular pH homeostasis. There are three classes of ATPases- F, P, and V. The vacuolar (V-type) ATPases have a transmembrane proton-conducting sector and an extramembrane catalytic sector. The encoded protein has been found associated with the transmembrane sector of the V-type ATPases.
 COMPLETENESS: complete on the 3' end.
 FEATURES
 source Location/Qualifiers
 1..2044
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="3"
 /map="3p"
 gene 1..2044
 /gene="APT6M8-9"
 /db_xref="LocusID:10159"
 CDS 103..1155
 /gene="APT6M8-9"
 /note="ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9; vacuolar ATP synthase membrane sector associated protein M8-9; V-ATPase M8.9 subunit"
 /codon_start=1
 /db_xref="LocusID:10159"

```

/product="ATPase membrane sector associated protein M8-9"
/protein_id="NP_005756.2"
/db_xref="GI:15011918"
/translation="MAVFVLLALVAGVLGNEFSILKSPGSVVFRNGNWPIPIGERIPD
VAALSMGFSVKEDLSWPGGLAVGNLFHRPRATVMVMVKGVNKLALPPGSVISYPLENAV
PFSLDVANSIHSLSFSEETPVVLQLAPSEERVYVMVGKANSVFEDLSVTLRQLRNRLFQ
ENSVLSSLPLNSLSRNNEVDLLFLSELQVLHDISSLLSRHKHLAKDHSPDLYSLELAG
LDEIGKRYGEDSEQFRDASKILVDALQKFADDMYSLYGGNAVVELTVKSFDTSLIRK
TRTILEAKQAKNPASPYNLAYKYNFEYSVVFNMVLWIMIALALAVIITSYNIWNMDPG
YDSIIYRMTNQKIRMD"
variation 370
/allele="C"
/allele="G"
/db_xref="dbSNP:9014"
variation 867
/allele="T"
/allele="C"
/db_xref="dbSNP:7691"
variation 867
/allele="T"
/allele="C"
/db_xref="dbSNP:1059871"
variation 1809
/allele="G"
/allele="T"
/db_xref="dbSNP:9062"
variation 1916
/allele="A"
/allele="G"
/db_xref="dbSNP:10536"
variation 1964
/allele="T"
/allele="C"
/db_xref="dbSNP:1060063"
polyA_signal 2014..2019
/evidence=experimental
polyA_site 2034
BASE COUNT 569 a 376 c 448 g 651 t
ORIGIN
1 ctggacgagt ccgagcgcgt cacctcctca cgctgcggct gtcgcccgtg tcccgcgggc
61 ccgttccgtg tcgcccgcga gtgctgcggc cgccgcggca ccatggctgt gtttgctgtg
121 ctccctggcg tgggtggcggg tgttttgggg aacgagttta gtatattaaa atcaccaggg
181 tctgttggtt tccgaaatgg aaattggcct ataccaggag agcggatccc agacgtgggt
241 gcattgtcca tgggcttctc tgtgaaagaa gacctttctt ggccaggact cgcagtggtg
301 aacctgtttc atcgtcctcg ggctaccgtc atggtgatgg tgaagggagt gaacaaactg
361 gctctacccc caggcagtggt catttcgtac cctttggaga atgcagttcc ttttagtctt
421 gacagtgttg caaattccat tcactcctta tttctgagg aaactcctgt tgttttgacg
481 ttggctccca gtgaggaaa agtgatatag gtagggaagg caaactcagt gtttgaagac
541 ctttcagtc ccttgcgcca gctccgtaat cgctgtttc aagaaaactc tgttctcagt
601 tcactcccc tcaattctct gtagtagaac aatgaagttg acctgctctt tctttctgaa
661 ctgcaagtgc tacatgatat ttcaagcttg ctgtctcgtc ataagcatct agccaaggat
721 cattctcctg atttatattc actggagctg gcaggtttgg atgaaattgg gaagcgttat
781 ggggaagact ctgaacaatt cagagatgct tctaagatcc ttgttgacgc tctgcaaaag
841 tttgcagatg acatgtacag tctttatggt gggaatgcag tggtagagtt agtcactgtc
901 aagtcatttg acacctccct cattaggaag acaaggacta tccttgaggc aaaacaagcg
961 aagaacccag caagtcccta taaccttgca tataagtata attttgaata ttccgtgggt
1021 ttcaacatgg tactttggat aatgatcgcc ttggccttgg ctgtgattat cacctcttac
1081 aatatttgg aacatggatcc tggatatgat agcatcattt ataggatgac aaaccagaag
1141 attcgaatgg attgaatgtt acctgtgcca gaattagaaa agggggttgg aaattggctg
1201 ttttggttaa atatatcttt tagtgtgctt taaagtagat agtatacttt acatttataa
1261 aaaaaaatca aattttgttc tttattttgt gtgtgcctgt gatgtttttc tagagtgaat
1321 tatagtattg acgtgaatcc cactgtggta tagattccat aatatgcttg aatattatga
1381 tatagccatt taataacatt gatttcattc tgtttaatga atttgaaat atgcactgaa
1441 agaaatgtaa aacattttaga atagctcgtg ttatggaaaa aagtgcactg aatttattag

```

```
1501 acaaacttac gaatgcttaa cttctttaca cagcataggt gaaaatcata tttgggctat
1561 tgtatactat gaacaatttg taaatgtctt aatttgatgt aaataactct gaaacaagag
1621 aaaagggttt taacttagag tagccctaaa atatggatgt gcttatataa tcgcttagtt
1681 ttggaactgt atctgagtaa cagaggacag ctgtttttta accctcttct gcaagtttgt
1741 tgacctacat gggctaatat ggatactaaa aatactacat tgatctaaga agaaactagc
1801 cttgtggagt atatagatgc ttttcattat acacacaaaa atccctgagg gacattttga
1861 ggcatgaata taaaacattt ttatttcagt aacttttccc cctgtgtaag ttactatggt
1921 ttgtggtaca acttcattct atagaatatt aagtggaagt ggggtgaattc tactttttat
1981 gttggagtgg accaatgtct atcaagagtg acaaataaag ttaatgatga ttccaaaaaa
2041 aaaa
```

//

Revised: October 24, 2001.

Disclaimer | Write to the Help Desk
NCBI | NLM | NIH